

I claim:

1. A method for testing server performance, comprising the steps of:
- (a) forming a collection of live maps for a plurality of transactions for a
5 chosen computing application;
- (b) transmitting a processing load, constituted by a plurality of said maps
for a plurality of said transactions, to a server running said computing application; and
- (c) measuring one or more performance criteria for said server as it
executes said load.

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2. The method of claim 1, comprising the further step of:
- (d) varying said processing load by making changes to the number of said
maps and the mix of said transactions transmitted to said server; and
whereby said measuring step (c) is repeated for each individual processing load.

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3. The method of claim 2, comprising the further step of:
- (e) comparing said performance criteria against predetermined performance
measures to determine whether said server's capacity is satisfactory.

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4. The method of claim 3, whereby said performance criteria include
average response time for a transaction within a load.

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5. The method of claim 3, whereby said performance criteria include the
proportion of server CPU time taken by each transaction of said load.

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6. A method for testing server performance, comprising the steps of:
- (a) forming a collection of live maps for a plurality of transactions for a
chosen computing application;
- (b) transmitting a processing load, constituted by a plurality of said maps
for a plurality of transactions, from a workstation to a server running said computing
application;
- (c) for each transaction within said load, returning a result to said
workstation; and
- (d) measuring, at said workstation, one or more performance criteria based
35 on execution of said load by said server.

7. The method of claim 6, comprising the further step of:

- (e) varying said processing load by making changes to the number of said maps and the mix of transactions transmitted to said server; and
whereby said measuring step (d) is repeated for each individual processing load.

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8. The method of claim 7, whereby said performance criteria include average response time from workstation-to-server-to-workstation for a transaction within a load, and/or the proportion of CPU time of said server taken by each transaction of said load.

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9. A method for testing server performance, comprising the steps of:

- (a) forming a collection of live maps for a plurality of transactions for a chosen computing application;

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transmitting a processing load, constituted by a plurality of said maps for a plurality of said transactions, to a server running said computing application;

- (c) varying said processing load by making changes to the number of said maps and the mix of said transactions transmitted to said server; and

(d) measuring one or more performance criteria as said server executes said load.

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10. A system for testing server performance, said system comprising:

- (a) a workstation sized to represent a plurality of individual client computing stations, said workstation including a data store of a collection of live maps for a plurality of transactions for a chosen application;

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(b) a server running said chosen application; and

(c) a communications connection between said workstation and said server;

and

wherein said workstation is operable to transmit a processing load to said server, via said communications connection, constituted by a plurality of said maps for a plurality of said transactions, and said server measures one or more performance criteria as it executes said load.

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11. The system of claim 10, wherein said workstation is further operable to vary said processing load by making changes to the number of said maps and the mix of

said transactions that are transmitted to the server, and said server measures said performance criteria for each said load it executes.

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5 } 12. The system of claim 11, wherein said server compares said measured performance criteria against predetermined performance measures to determine whether its capacity is satisfactory.

10 13. The system of claim 12, wherein said server maintains a data store of said performance data measures.

14. The system of claim 13, wherein said server produces an output representing said performance data measures.

15 15. The system of claim 12, wherein said performance data criteria includes the average response time for a transaction within said load.

16. The system of claim 12, wherein said performance data criteria includes the proportion of server CPU time taken by each transaction of said load.

20 17. The system of claim 12, wherein said application server has connection to one or more database servers, said database servers executing portions of said load transactions.

25 18. The system of claim 12, wherein said application server is formed by a plurality of servers, and each of said server plurality has connection to one or more database servers, said database servers executing portions of said load transactions.

30 19. A system for testing server performance, said system comprising:
(a) a workstation sized to represent a plurality of individual client computing stations, said workstation including a datastore of a collection of live maps for a plurality of transactions for a chosen application;

(b) a server running said chosen application; and

(c) a communications connection between said workstation and said server;

and

wherein said workstation is operable to transmit a processing load to said server, via said communications connection, constituted by a plurality of said maps for a plurality of said transactions, and said workstation measures one or more performance criteria of said server as said server executes said load.

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20. The system of claim 19, wherein said performance criteria include the proportion of server CPU time taken by each transaction of said load.

10 21. The system of claim 20, wherein said performance criteria include the proportion of server CPU time taken by each transaction of said load.

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15 22. A system for testing server performance, said system comprising:
(a) a workstation sized to represent a plurality of individual client computing stations, said workstation including a datastore of a collection of live maps for a plurality of transactions for a chosen application;

(b) a server running said chosen application;
(c) at least one database in communication with said server; and
(d) a communications connection between said workstation and said server;
and

20 wherein said workstation is operable to transmit a processing load for said database to said server via said communications connection, and said server measures one or more performance criteria as said load is executed.

25 23. The system of claim 22, wherein said workstation is further operable to vary said processing load by making changes to the number of said maps and the mix of said transactions that are transmitted to the server, and said server measures said performance criteria for each said load it executes

30 24. The system of claim 23, wherein said server compares said measured performance criteria against predetermined performance measures to determine whether its capacity is satisfactory.

35 25. The system of claim 24, wherein said server maintains a data store of said performance data measures.

26. The system of claim 23, wherein said performance criteria includes the average response time for a transaction within said load.

27. The system of claim 23, wherein said performance criteria includes the
5 proportion of server CPU time taken by each transaction of said load.

JA9-99-715